

## CLAIMS

What is claimed is:

- 1        1. An acoustic assembly comprising  
2              an electroacoustical transducer; and  
3              an acoustic element, separate from said electroacoustical transducer, designed and  
4              constructed to improve the acoustic performance of said electroacoustical transducer;  
5              said acoustic assembly designed and constructed to be an element of a vehicle  
6              pillar.
  
- 1        2. An acoustic assembly in accordance with claim 1, wherein said acoustic  
2              element is a waveguide.
  
- 1        3. An acoustic assembly in accordance with claim 2, wherein said waveguide is a  
2              two-ended waveguide.
  
- 1        4. An acoustic assembly in accordance with claim 2, wherein said waveguide is a  
2              single-ended waveguide.
  
- 1        5. An acoustic assembly in accordance with claim 1, wherein said acoustic  
2              assembly is an acoustic volume.
  
- 1        6. An acoustic assembly in accordance with claim 5 wherein said acoustic  
2              volume is ported.
  
- 1        7. An acoustic assembly in accordance with claim 6 further comprising a second  
2              electroacoustical transducer.
  
- 1        8. An acoustic assembly in accordance with claim 5 wherein said acoustic  
2              volume is sealed.

1           9. A acoustic assembly in accordance with claim 8, further comprising a second  
2 electroacoustical transducer.

1           10. An acoustic assembly in accordance with claim 1, wherein said vehicle pillar  
2 is the A-pillar.

1           11. A structural automobile pillar containing an acoustic assembly, said acoustic  
2 assembly including an acoustical driver and an acoustic element.

1           12. An automobile pillar in accordance with claim 11, wherein said pillar is an A-  
2 pillar.

1           13. An automobile pillar in accordance with claim 12, wherein said acoustic  
2 element is a waveguide.

1           14. An acoustic assembly in accordance with claim 13, wherein said waveguide  
2 is a two-ended waveguide.

1           15. An acoustic assembly in accordance with claim 13, wherein said waveguide  
2 is a single-ended waveguide.

1           16. An automobile pillar in accordance with claim 12, wherein said acoustic  
2 element in an acoustic volume.

1           17. An acoustic assembly in accordance with claim 16 wherein said acoustic  
2 volume is ported.

*Sub B* 17       18. An acoustic assembly in accordance with claim 17 further comprising a  
2 second transducer.

1           19. An acoustic assembly in accordance with claim 18 wherein said acoustic  
2 volume is sealed.

1 *Surf art* 20. An acoustic assembly in accordance with claim 20 further comprising a  
2 second electroacoustical transducer. *Q 10*

1 21. A trim element for covering a vehicle pillar, said trim element forming an  
2 acoustic assembly.

1 22. A trim element in accordance with claim 21 wherein said acoustic assembly  
2 is a waveguide.

1 23. A trim element in accordance with claim 21 wherein said acoustic assembly  
2 is an acoustic volume.

1 24. A trim element in accordance with claim 21 wherein said vehicle pillar is an  
2 A-pillar.

1 25. An automobile pillar comprising a plurality of sound sources.

1 26. An automobile pillar in accordance with claim 25 wherein said plurality of  
2 sound sources comprises a plurality of electroacoustical transducers.

1 27. An automobile pillar in accordance with claim 25, wherein a first of said  
2 sound sources comprises a first electroacoustical transducer and a second of said sound  
3 sources comprises a port opening.

1 28. An automobile pillar in accordance with claim 27, wherein said a third of said  
2 sound sources comprises a second electroacoustical transducer wherein said first and said  
3 third sound sources are positioned equidistantly from said second sound source. *Fayab ✓*

1 29. An automobile pillar in accordance with claim 25, wherein said plurality of  
2 sound sources comprises an electroacoustical transducer and a waveguide opening.

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